



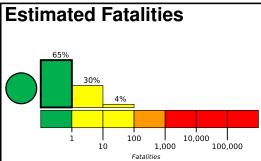


PAGER Version 5

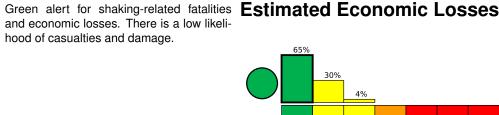
Created: 1 day, 0 hours after earthquake

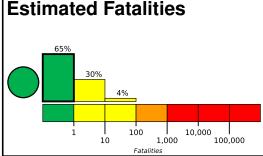
M 5.5, 122 km SE of Arica, Chile

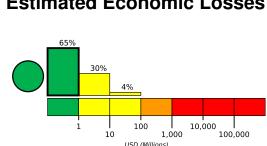
Origin Time: 2022-01-28 00:31:25 UTC (Thu 21:31:25 local) Location: 19.1264° S 69.3571° W Depth: 92.5 km



and economic losses. There is a low likeli-







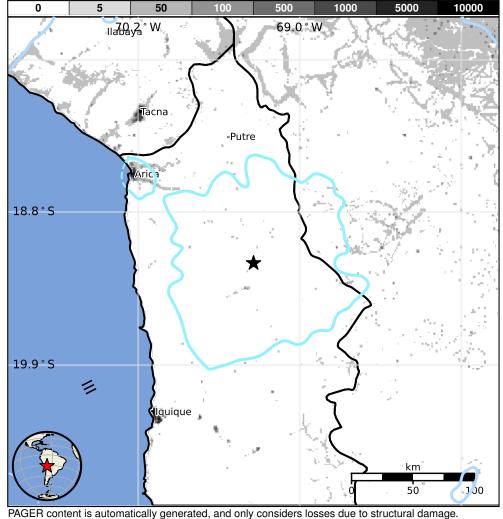
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	869k	298k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date		Dist.	Mag.	Max	Shaking	
	(UTC)	(km)		MMI(#)	Deaths	
	2001-07-24	48	6.3	V(36k)	1	
	1987-08-13	212	6.5	VII(62k)	1	
	1981-06-21	166	5.7	VII(6k)	10	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

MMI	City	Population
IV	Arica	186k
IV	Cruz de Machacamarca	<1k
Ш	Iquique	227k
Ш	Putre	<1k
Ш	Pocollay	<1k
Ш	Calana	1k
Ш	Tacna	280k
Ш	Tarata	3k
Ш	llabaya	9k
Ш	Lahuachaca	3k
П	Quilahuani	3k

bold cities appear on map.

(k = x1000)

Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us7000gfq8#pager

Event ID: us7000gfq8